# PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

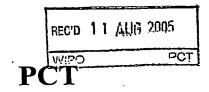
Applicant's or agent's file reference

00000PCT7821

International application No.

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

398, Hase, Atsugi-shi, Kanagawa 2430036 Japan



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

<u>09.</u> 8. 2005 Date of mailing (day/month/year) FOR FURTHER ACTION See paragraph 2 below Priority date (day/month/year) International filing date (day/month/year) 09.04.2004

06.04.2005 PCT/JP2005/007113 International Patent Classification (IPC) or both national classification and IPC

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

InLCL. GO 6K 19/00, 17/00, B65G61/00, H04B1/59, 5/02

1.	This c	pinion contains	indications relating to the following items.
	V	Box No. I	Basis of the opinion
	Γ	Box No. II	Priority
	Г	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Г	Box No. IV	Lack of unity of invention
	F	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Γ	Box No. VI	Certain documents cited
	Г	Box No. VII	Certain defects in the international application
	Г	Box No. VIII	Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

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Authorized officer	5B	8627
Ryohei Otsuka Telephone No. +81-3-3581-1101 Ext.	3546	
	Authorized officer Ryohei Otsuka	Authorized officer 5B  Ryohei Otsuka

Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.
PCT/JP2005/007113

<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language which it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following language into the following language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).</li> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary claimed invention, this opinion has been established on the basis of:         <ul> <li>a type of material</li> <li>a sequence listing</li> <li>table(s) related to the sequence listing</li> </ul> </li> <li>b. format of material         <ul> <li>in written format</li> <li>in computer readable form</li> </ul> </li> <li>c. time of filing/furnishing         <ul> <li>contained in the international application in computer readable form.</li> <li>furnished subsequently to this Authority for the purposes of search.</li> </ul> </li> <li>In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto filed or furnished, the required statements that the information in the subsequent or additional copies is identic filed or furnished, the required statements that the information in the subsequent or additional copies is identic in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</li> <li>4. Additional comments:</li> </ol>	
Rules 12.3 and 23.1(b)).  2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary claimed invention, this opinion has been established on the basis of:  a. type of material  a sequence listing  table(s) related to the sequence listing  b. format of material  in written format  in computer readable form  c. time of filing/furnishing  contained in the international application as filed.  filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto filed or furnished, the required statements that the information in the subsequent or additional copies is identic in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	uage
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4. Additional comments:	has be al to th
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International application No.

PCT/JP2005/007113

Statement			
Novelty (N)	Claims	1-12	YES
Novelly (N)	Claims		NO
	Claims		YES
Inventive step (IS)	Claims	1-12	NO
	Ot-1	1-12	YES
Industrial applicability (IA)	Claims Claims	1-12	NO NO
		•	•

2004.01.22,paragaraphs[0015]-[0019],(Family none)

A2:JP 2003-345818 A(HITACHI,LTD.)

2003.12.05,paragaraphs[0008]-[0014] & CN A 001460949

A3: JP 2001-155134 A(SEIKO EPSON CORPORATION),

2001.06.08, claims1, 2, (Family none)

A4:JP 11-66250 A(TOSHIBA CORPORATION)

1999.03.09,paragaraphs[0039]-[0048],(Family none)

A5:JP 2000-138621 A(HITACHI MAXWELL CO., Ltd.)

2000.05.16, paragaraph[0014], (Family none)

Claims 1,2,3,6,7,8,9

The subject matters of claims 1,2,3,6,7,8,9 do not appear to involve an inventive step in view A1, A2 and A3. A1 discloses a system comprising a cover over non-contact data carrier, providing with a resonance circuit, and a reader/writer. A2 discloses a product managing system comprising a package for packing a product provided with an IC chip, and a reader. A3 discloses an IC chip comprises a thin film integrated circuit. Therefore, the skilled person in the art would easily conceive the idea of applying the product managing system in A2 to the system in A1, and also said IC chip comprising the thin film integrated circuit in A3 to said non-contact data carrier in Al.

Claims 4,5

The subject matters of claims 4,5 do not appear to involve an inventive step in view A1, A2, A3 and A4. A4 discloses a relay device has two different communication methods. Therefore, the skilled person in the art would easily conceive the idea of applying the technical feature in A4 to the resonance circuit in A1.

Claims 10,11,12

The subject matters of claims 10,11,12 do not appear to involve an inventive step in view Al ,A2 ,A3 and A5. A5 discloses some boosters are connected between a non-contact data carrier and a reader/writer. Therefore, the skilled person in the art would easily conceive the idea of applying the

International application No. PCT/JP2005/007113

Supplementa	l Box
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In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box No. V

technical feature in A4 to the resonance circuit in A1.

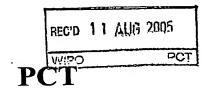
Form PCT/ISA/237 (Supplemental Box) (January 2004)

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

398, Hase, Atsugi-shi, Kanagawa 2430036 Japan



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing (day/month/year) <u>09.</u> 8. 2005

Applicant's or agent's file reference 00000PCT7821

FOR FURTHER ACTION

See paragraph 2 below

International application No. PCT/JP2005/007113 International filing date (day/month/year) 06.04.2005

Priority date (day/month/year)

09.04.2004

International Patent Classification (IPC) or both national classification and IPC

Int.CL. GO6K 19/00, 17/00, B65G61/00, H04B1/59,

Applicant

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

1.	This opinion	contains indications relating to the following items:	
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Basis of the opinion V Box No. I

**Priority** Box No. II

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III

Lack of unity of invention Box No. IV

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V

citations and explanations supporting such statement

Certain documents cited Box No. VI

Certain defects in the international application Box No. VII

Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

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)	otsuka o. +81-3-3581-1101 Ext. 3546

Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.

PCT/JP2005/007113

x No. I	Basis of the opinion				
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Ru	les 12.3 and 23.1(b)).				
With rega	ard to any nucleotide and/or nvention, this opinion has be	r amino acid sequence dis en established on the basis o	sclosed in the internation	onal application and	necessary to the
a type of	f material				
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International application No.

PCT/JP2005/007113

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial a citations and explanations supporting such statement			trial applicability	
1. Statemen	nt			
Nove	elty (N)	Claims Claims	1-12	YES NO
Inver	ntive step (IS)	Claims Claims	1-12	YES
Indu	strial applicability (IA)	Claims Claims	1-12	YES NO
A1:JP 2004.03 A2:JP 2003.13	1.22,paragarap 2003-345818 A 2.05,paragarap	hs [0015 .(HITACF hs [0008	PPON PRINTING CO.,Ltd.) ]-[0019],(Family none) HI,LTD.) ]-[0014] & CN A 001460949 EPSON CORPORATION),	·

Claims 1,2,3,6,7,8,9

2001.06.08, claims1, 2, (Family none) A4:JP 11-66250 A(TOSHIBA CORPORATION)

1999.03.09,paragaraphs[0039]-[0048],(Family none) A5:JP 2000-138621 A(HITACHI MAXWELL CO., Ltd.)

2000.05.16,paragaraph[0014],(Family none)

The subject matters of claims 1,2,3,6,7,8,9 do not appear to involve an inventive step in view A1, A2 and A3. A1 discloses a system comprising a cover over non-contact data carrier, providing with a resonance circuit, and a reader/writer.A2 discloses a product managing system comprising a package for packing a product provided with an IC chip, and a reader. A3 discloses an IC chip comprises a thin film integrated circuit. Therefore, the skilled person in the art would easily conceive the idea of applying the product managing system in A2 to the system in A1, and also said IC chip comprising the thin film integrated circuit in A3 to said non-contact data carrier in Al.

#### Claims 4,5

The subject matters of claims 4,5 do not appear to involve an inventive step in view A1, A2, A3 and A4. A4 discloses a relay device has two different communication methods. Therefore, the skilled person in the art would easily conceive the idea of applying the technical feature in A4 to the resonance circuit in A1.

### Claims 10,11,12

The subject matters of claims 10,11,12 do not appear to involve an inventive step in view A1 ,A2 ,A3 and A5. A5 discloses some boosters are connected between a non-contact data carrier and a reader/writer. Therefore, the skilled person in the art would easily conceive the idea of applying the

International application No.

PCT/JP2005/007113

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box No. V

technical feature in A4 to the resonance circuit in A1.

Form PCT/ISA/237 (Supplemental Box) (January 2004)